

PIONEER MUNICIPAL HIGH INCOME ADVANTAGE TRUST
Form NSAR-B
May 30, 2013

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000 B000000 03/31/2013
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000 I000000 6.1
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001 A000000 PIONEER MUNICIPAL HIGH INCOME ADVANTAGE TRUST
001 B000000 811-21409
001 C000000 6177427825
002 A000000 60 STATE STREET
002 B000000 BOSTON
002 C000000 MA
002 D010000 02109
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007 C010900 9
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008 B000001 A
008 C000001 801-8255
008 D010001 BOSTON
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010 B000001 801-8255
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010 A000002 BROWN BROTHERS HARRIMAN & CO.
010 C010002 BOSTON
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011 A000001 PIONEER FUNDS DISTRIBUTOR, INC.
011 B000001 8-41256
011 C010001 BOSTON
011 C020001 MA
PAGE 2
011 C030001 02109
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011 A000002 UBS INVESTMENT BANK
011 B000002 8-022651
011 C010002 STAMFORD
011 C020002 CT

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011 C030002 06901
011 A000003 RBC CAPITAL MARKETS CORP.
011 B000003 8-045411
011 C010003 MINNEAPOLIS
011 C020003 MN
011 C030003 55402
011 C040003 4422
011 A000004 MERRILL LYNCH & CO.
011 B000004 8-7221
011 C010004 NEW YORK
011 C020004 NY
011 C030004 10281
011 C040004 1201
011 A000005 JANNEY MONTGOMERY SCOTT, LLC
011 B000005 8-462
011 C010005 PHILADELPHIA
011 C020005 PA
011 C030005 19103
011 C040005 1675
011 A000006 WACHOVIA CAPITAL MARKETS, LLC
011 B000006 8-99999
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011 C020006 VA
011 C030006 23219
012 A000001 PIONEER INVEST. MGMT. SHAREHOLDER SERV. INC.
012 B000001 85-01359
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012 A000002 AMERICAN STOCK TRANSFER & TRUST CO. (COMMON)
012 B000002 85-00000
012 C010002 BROOKLYN
012 C020002 NY
012 C030002 11219
012 A000003 DEUTSCHE BANK TRUST COMPANY AMERICAS (PREF.)
012 B000003 85-05212
012 C010003 NEW YORK
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012 C030003 10005
013 A000001 ERNST & YOUNG, LLP
013 B010001 BOSTON
013 B020001 MA
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015 A000001 BROWN BROTHERS HARRIMAN & CO.
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015 A000003 HSBC BANK AUSTRALIA LIMITED
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015 C010003 SYDNEY
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015 A000004 EUROCLEAR BANK SA NV

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015 A000014 CITIBANK EUROPE PLC, HUNGARIAN BRANCH OFFICE
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015 C010016 TEL AVIV
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015 A000018 CFC STANBIC BANK LIMITED
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015 E040018 X
015 A000019 HSBC BANK MALAYSIA BERHAD
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015 A000025 HSBC LIMITED, PHILIPPINE BRANCH
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015 A000026 BANK HANDLOWY W WARSZAWIE SA
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015 A000027 ING BANK N.V., BUCHAREST BRANCH
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015 A000028 ZAO CITIBANK
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015 C010028 MOSCOW

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015 D010028 RUSSIA
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015 D010031 SOUTH AFRICA
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015 B000048 S
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015 A000049 HSBC BANK MIDDLE EAST CORPORATION
015 B000049 S
015 C010049 AMMAN
015 D010049 JORDAN
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015 A000050 HSBC BANK MIDDLE EAST LIMITED, KUWAIT BRANCH
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015 E040050 X
015 A000051 KBL EUROPEAN PRIVATE BANKERS SA
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015 D010051 LUXEMBOURG
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PAGE 8
015 A000052 BNP PARIBAS SECURITIES SERVICES
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015 C010052 PANTIN
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015 B000053 S
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015 B000054 S
015 C010054 PANTIN
015 D010054 PORTUGAL
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015 A000055 HSBC BANK MIDDLE EAST LIMITED, QATAR BRANCH
015 B000055 S
015 C010055 ST. HELIER
015 D010055 QATAR
015 E040055 X
015 A000056 HSBC SAUDI ARABIA LIMITED
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015 C010056 RIYADH
015 D010056 SAUDI ARABIA
015 E040056 X
015 A000057 CITIBANK KOREA INC
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015 C010057 SEOUL
015 D010057 SOUTH KOREA
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015 A000058 BANCO BILBAO VIZCAYA AREGENTARIA SA
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015 C010058 MADRID
015 D010058 SPAIN
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015 A000059 HSBC, SRI LANKA BRANCH
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015 C010059 COLOMBO
015 D010059 SRI LANKA
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015 A000061 HSBC BANK PLC
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015 C010061 LONDON
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015 D010063 VIETNAM
015 E040063 X
018 000000 Y
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020 A000001 SANFORD C. BERNSTEIN & CO., LLC

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020 B000001 13-4132953
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020 A000002 UBS SECURITIES LLC
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022 A000007 OPPENHEIMER & CO. INC.
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022 A000008 CLEARVIEW TRADING ADVISORS, INC.
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022 A000009 MESIROW FINANCIAL, INC.
022 B000009 36-3194849
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022 A000010 MERRILL LYNCH, PIERCE, FENNER & SMITH INC.
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SIGNATURE MARK E. BRADLEY
TITLE TREASURER